KAMLOOPS
CANADA STEAMSHIP LINES

Furness Shipg Coy's Nos 68/9

Profile & Deck Plan

S.S. 'Kamloops' (No.68)
MDB. RPT. No. 11981

'Lethbridge'
Mdb 12036.

RETAIN

ISHERWOOD SYSTEM OF SHIP CONSTRUCTION
J. W. ISHERWOOD
LLOYDS AVENUE
LONDON, E.C.
21/12/23.

W666-0104

21/12/23

TWEEN DECK. PACKAGE FREIGHTER
PROFILE & DECK PLANS.

DIMENSIONS. LENGTH B.P. 250-0". BREADTH M^LD 42-9". DEPTH M^LD 26'-6"

ISHERWOOD SYSTEM.

SCALE 1/8" = 1 FOOT.

TO CLASS LLOYDS + 100. A.1. with Freeboard. FOR SERVICE ON THE GREAT LAKES
AND RIVER ST. LAWRENCE.

WHEEL HOUSE
ACCOMMODATION
F'CSLE DECK
ACCOMMODATION
UPPER DECK
FORECASTLE SIDES ·32
FORECASTLE FRAMES 5" x 3 x ·38 O.A.
COAL BUNKER
SKETCH SHOWING STRENGTHENING IN WAY OF CARGO DOORS TO BE SUBMITTED.
TWEEN DECK FRAMES 5 x 3 x ·38 O.A.
BUNKER AT SIDES
CARGO SPACE
CARGO DOOR
CARGO SPACE
CARGO DOOR
CARGO SPACE
CARGO DOOR
TWEEN DECK FRAMES SEE PLAN OF CARGO SPACE
CHAIN LOCKER
STORES
2ND DECK
FORE PEAK
14'-0" DRAFT.
SKETCH OF COFFERDAM AND STRENGTHENING IN WAY OF FENDERS TO BE SUBMITTED.
W.T. BULKHEAD
ENGINE & BOILER SPACE
W.T. BULKHEAD
No 3 CARGO HOLD
DIV. BULKHEAD
No 2 CARGO HOLD
W.T. BULKHEAD
No 1 CARGO HOLD
END OF COFFERDAM
W.T. BULKHEAD
WELL
WATER BALLAST
WATER BALLAST
WATER BALLAST
WATER BALLAST
PEAK FRAMES 6" x 3 x ·32 B.A SPACED 24" APART.
FRAMES 8 x 3 x ·42" B.A. SPACED 24" APART. TO 2ND DK
29
4-0"
8'-0"
1/2 LENGTH.
48
47
TRANSVERSE FRAMING
ISHERWOOD FRAMING
FRAMES (SEE SECTION) SPACED 24" APART TO 2ND DECK
ISHERWOOD FRAMING.
TRANSVERSE FRAMING
PEAK FRAMES. 6 x 3 x ·32 B.A. SPACED 18" APART.
SKY-LIGHT
ENGINE ROOM SKY-LIGHT
COAL HATCH
GRATING
BUNKER HATCH BELOW
COAL HATCH.
STRINGER ANGLE 3 x 3 x ·30
STRINGER 24 x ·30
DECK ·25 SHEATHED
FORECASTLE DECK
BEAMS 7 x 3 x ·34 B.A.
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 49 51 53 55 57 59 61 63
BEAM 6 x 3 x ·34 B.A.
BEAMS 8 x 3 x ·40" B.A.
BEAMS 6 x 3 x ·34 B.A.
STRINGER AT ENDS ·38"
30 cemented.
DECK ·25 SHEATHED
ENGINE CASING
COAL SHOOT
BOILER CASING
COAL SHOOT
W.T. BHD BELOW
·40"
·50
·36"
CARGO HATCH 8'-0" x 28'-0"
CARGO HATCH 16'-0" x 28'-0"
WRECKING WELL
FORECASTLE FRONT
30 cemented
DECK ·25 SHEATHED.
W.T. BHD BELOW
STRINGER AT ENDS ·38"
·42"
UPPER DECK
BEAMS 7 x 3 x ·40 B.A.
BEAMS 6 x 3 x ·34 B.A.
COAL BUNKER
COAL HATCH
STRINGER PLATE 28" x ·34 AT ENDS.
W.T. BHD BELOW
·25"
ENGINE ROOM
BOILER ROOM
·34
TRIMMING HATCHES
STRINGER ·34.
DIV. BHD BELOW
W.T. BHD BELOW
CARGO HATCH 8'-0" x 21'-0"
CARGO HATCH 16'-0" x 21'-0"
·34"
WRECKING WELL
BEAMS 6 x 3 x ·34 B.A.
BEAMS 9 x 3½ x ·44 B.A.
BEAMS 6 x 3 x ·34 B.A.
BEAMS 7 x 3 x ·40 B.A.
COFFERDAM BELOW
BEAMS 6 x 3 x ·34 B.A.
·25
CHAIN LOCKER.
W.T. BHD ABOVE & BELOW
STRINGER PLATE 28 x ·34 AT ENDS
·25"
2ND DECK

THE FURNESS SHIPBUILDING CO LTD
HAVERTON - HILL - ON - TEES
PLAN No 1386. I. No 1450. 12.12.23

A.C.G.
21.12.23

W666-0104

S.S. Kamloops

Furness Ship^{g} Coy's No. 68

Profile & Decks
As Built

S.S. Kamloops
MDB. RPT. No. 11981.

RETAIN

(see later)

W666-0105

S/S "KAMLOOPS" & S/S "LETHBRIDGE"

TWEEN DECK PACKAGE FREIGHTER

PROFILE & DECK PLANS.

DIMENSIONS. LENGTH B.P. 250-0". BREADTH M^LD 42-9", DEPTH M^LD 26-6"

ISHERWOOD SYSTEM.

SCALE 1/8" = 1 FOOT.

TO CLASS LLOYDS + 100. A.1. & B.S. * WITH FREEBOARD FOR SERVICE ON THE GREAT LAKES AND RIVER ST. LAWRENCE.

WHEEL HOUSE
ACCOMMODATION
F'C'SLE DECK
ACCOMMODATION
UPPER DECK
CHAIN LOCKER
STORES
2ND DECK
FORE PEAK
BRACKETS
BRACKETS
COAL BUNKER
INTERMEDIATE FRAMES 3 x 3 x .30 O.A.
BUNKER AT SIDES
DOUBLINGS IN WAY OF CARGO DOORS .60"
CARGO SPACE
CARGO DOOR
CARGO SPACE
CARGO DOOR
CARGO SPACE
CARGO DOOR
CARGO SPACE
ENGINE & BOILER SPACE
W.T. BULKHEAD
W.T. BULKHEAD
Nº 3 CARGO HOLD
O.N. BULKHEAD
Nº 2 CARGO HOLD
W.T. BULKHEAD
Nº 1 CARGO HOLD
END OF COFFERDAM
W.T. BULKHEAD
WELL
WATER BALLAST
WELL
WELL
WATER BALLAST
WELL
WATER BALLAST
WELL
WATER BALLAST
WELL
PEAK FRAMES 6" x 3 x .32 B.A. SPACED 24" APART.
FRAMES 8 x 3 x .42" B.A. SPACED 24" APART.
TO 2ND DK & UPPER DK ALTERNATELY
TRANSVERSE FRAMING
4-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0" 8-0"
1/2 LENGTH
ISHERWOOD FRAMING
1/2 LENGTH
ISHERWOOD FRAMING
FRAMES SPACED 24" APART.
TRANSVERSE FRAMING
PEAK FRAMES 6 x 3 x .32 B.A. SPACED 18" APART.
FORECASTLE SIDES .30"
FORECASTLE FRAMES 5" x 3 x .38 O.A. IN WAY OF FORE PEAK. AFT OF PEAK BHD 7" x 3" x .34" B.A. ALTERNATELY 3" x 3" x .30" INTERMEDIATE
14-0" DRAFT.
BEAMS UNDER STRINGER ON ALTERNATE FRS. 7 x 3" x .34" B.A.
DECK .25"
SKYLIGHT.
ENGINE ROOM SKYLIGHT.
COAL HATCH
GRATING
BUNKER BHD BELOW.
COAL HATCH.
STRINGER ANGLE 3 x 3 x .30"
DECK .30" IN DECKHOUSE .34" WHERE EXPOSED.
BEAMS 7" x 3" x .34 B.A.
FORECASTLE DECK
BEAMS 7 x 3 x .34 B.A.
BEAM 6 x 3 x .34 B.A.
9 x 3½ x .44 B.A.
BEAMS 8 x 3 x .40" B.A.
.42"
BEAMS 6 x 3 x .34 B.A.
STRINGER AT ENDS .32"
DECK .30"
AND BOLTED BETWEEN BEAMS
ENGINE CASING
COAL SHOOT
COAL SHOOT
BOILER CASING
BHD BELOW
W.T. BHD
.50 .40" .50 .40" .50 .40" .50 .40"
.36" .36" .36" .36" .36" .36"
CARGO HATCH 8-0" x 28-0"
CARGO HATCH 16-0" x 28-0"
WRECKING WELL
CARGO HATCH 16-0" x 28-0"
CARGO HATCH 8-0" x 28-0"
WRECKING WELL
CARGO HATCH 16-0" x 28-0"
CARGO HATCH 8-0" x 28-0"
FORECASTLE FRONT
DECK .30" .40" UNDER WINDLASS.
W.T. BHD BELOW
STRINGER AT ENDS .38"
UPPER DECK
BEAMS 7 x 3 x .40 B.A.
BEAMS 6 x 3 x .34 B.A.
BEAMS 6 x 3 x .34 B.A.
BEAMS 9 x 3½ x .44 B.A.
BEAMS 6 x 3 x .34 B.A.
BEAMS 7 x 3 x .40 B.A.
STRINGER .34.
COAL BUNKER.
COAL HATCH
TRIMMING HATCHE
STRINGER PLATE 28" x .34 AT ENDS.
W.T. BHD BELOW
.25"
PILLAR
BUILT PILLAR.
ENGINE ROOM
BOILER ROOM
.34
CARGO HATCH 8-0" x 21-0"
CARGO HATCH 16-0" x 21-0"
O.N. BHD BELOW
.34"
WRECKING WELL
CARGO HATCH 16-0" x 21-0"
CARGO HATCH 8-0" x 21-0"
.34"
W.T. BHD BELOW
.34"
CARGO HATCH 16-0" x 21-0"
WRECKING WELL
CARGO HATCH 8-0" x 21-0"
COFFERDAM BELOW
.25
CARGO HATCH 8-0" x 21-0"
CHAIN LOCKER.
W.T. BHD ABOVE & BELOW
STRINGER PLATE 28" x .34 AT ENDS
.25"
2ND DECK

FURNESS SHIPBUILDING CO. LTD. HAVERTON HILL-ON-TEES
SHIP DRAWING OFFICE
ISSUE No. X6289
DATE 30-8-24.

THE FURNESS SHIPBUILDING CO LTD
HAVERTON - HILL - ON - TEES.
PLAN Nº 1386. I Nº 1450. 12.12.23.

W666-0105

Furness Ship Bays No. 68/69

Midship Section

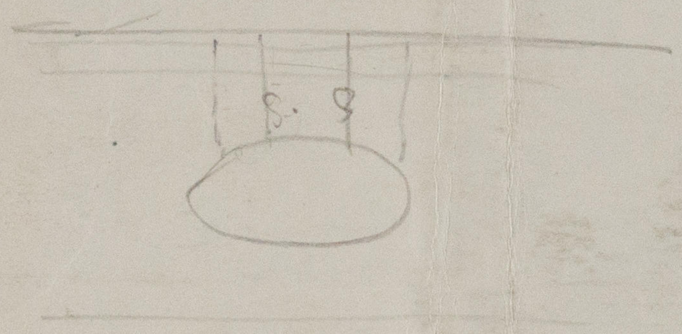
S.S. "Kamloops" (No. 68)
MDB. RPT. No. 11981

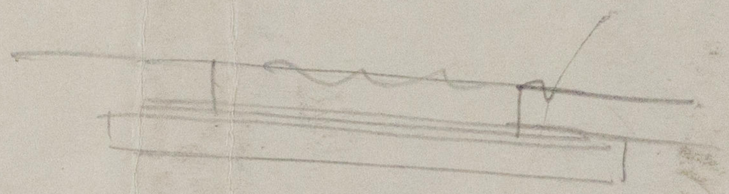
Lethbridge
Mdb 12036.

RETAIN

ISHERWOOD SYSTEM OF SHIP CONSTRUCTION
J. W. ISHERWOOD
LLOYDS AVENUE
LONDON, E.C.
2/~~19~~/12/23.

W666-00





W666-010

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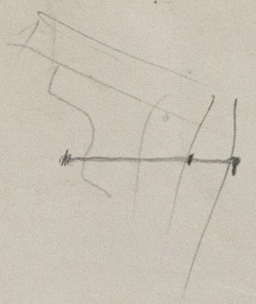


W666-0101

21/12/23

MIDSHIP SECTION.

TWEEN DECK PACKAGE FREIGHTER

TO CLASS 100. A.1. LLOYDS+ with Freeboard. FOR SERVICE ON THE GREAT LAKES & R. ST. LAWRENCE.

SCALE 1/2" = 1'-0"

ISHERWOOD SYSTEM.

DIMENSIONS.

LENGTH O.A.	258'-0"
" B.P.	250'-0"
BREADTH MLD	42'-9"
DEPTH MLD	26'-6"
DRAFT	14'-0"

EQUIPMENT.

2 BOWERS STOCKLESS 36 CWTS EACH.

1 STREAM 11 1/4 CWTS EX STOCK "

210 FATHOMS 1 11/16 STUD. CHAIN CABLE.

75 " 3 1/2" STEEL WIRE STREAM LINE

2-90 " 6 1/2" MANILLA.

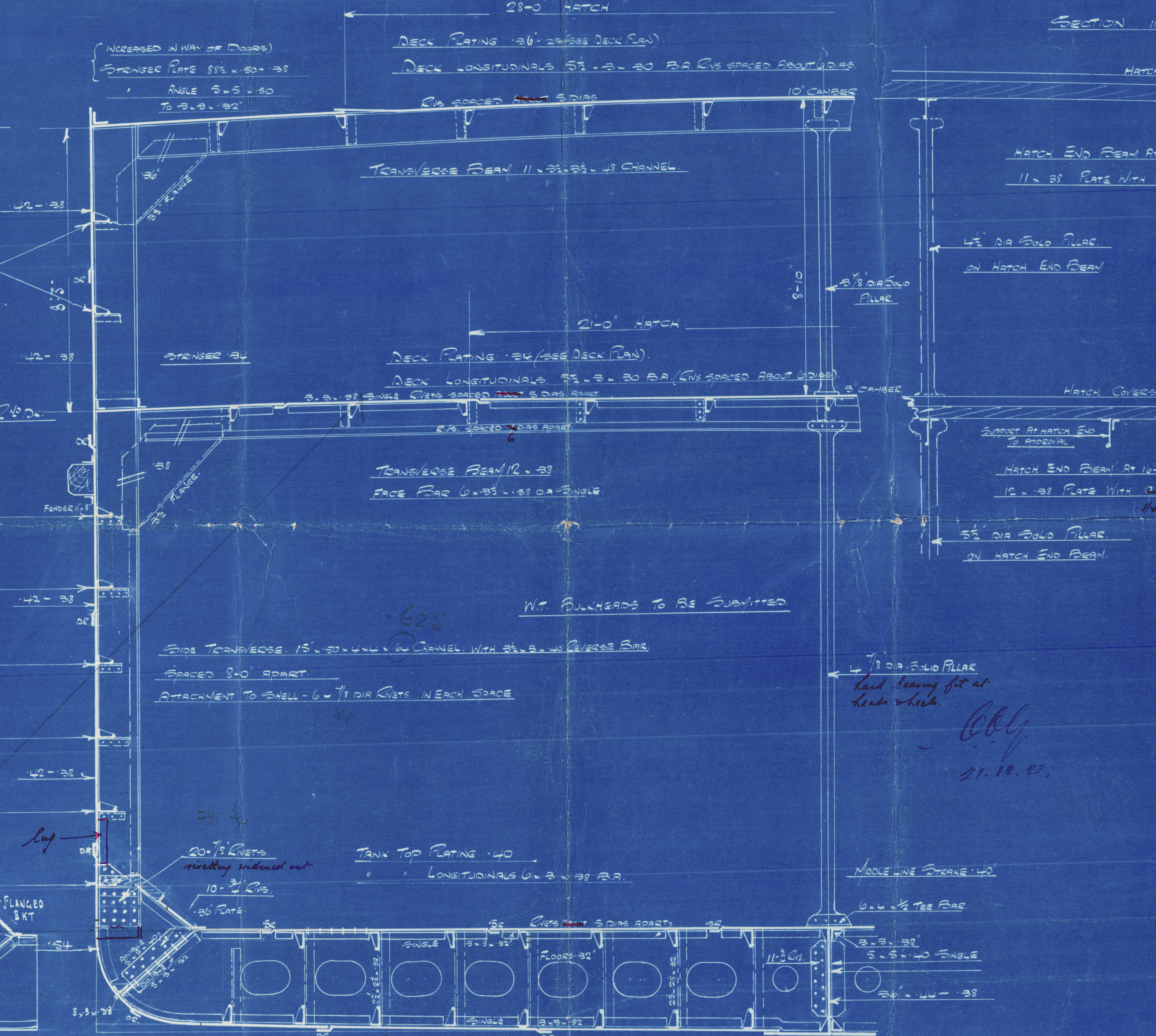
2-90 " 5 "

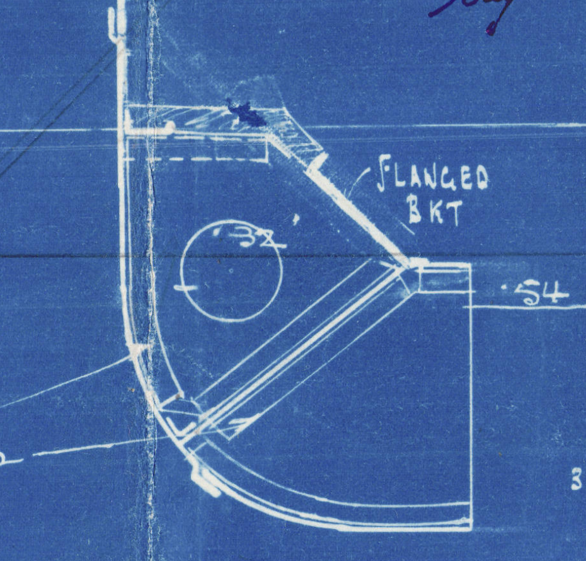
105 " 3 1/2" STEEL WIRE TOWLINE

RIVETS 3/4" DIA.

RIVETING IN LONGITUDINALS.	No OF RIVETS IN LONGL. BUTTS.	No OF RIVS IN BULKD BKTS.	
RIVETS SPACED 6 DIAS APART.	6	5.	Nos 1 & 1A 5 1/2 x 3 x .30 B.A.
RIVETS SPACED 6 DIAS APART	6	5.	No 2 5 1/2 x 3 x .30 B.A
Do	6	5.	No 3 Do
Do	6	5.	No 4 Do
Do	6	5.	No 5 Do
Do	6	5.	No 6 6 x 3 x .38 B.A
Do	6	5.	
			No 7 Do
			INTcs BETWEEN TRANSVERSES.

BOTTOM & TANK TOP LONGLS SPACED AS ABOVE.


28'-0" HATCH.
DECK PLATING .36"-.28 (SEE DECK PLAN)
DECK LONGITUDINALS 5 1/2 x 3 x .30 B.A. RIVS SPACED ABOUT 6 DIAS.
(INCREASED IN WAY OF DOORS)
STRINGER PLATE 88 1/2 x .50 - .38
" ANGLE 5 x 5 x .50 TO 3 x 3 x .32"
UPPER DECK
RIVS SPACED ~~ABOUT~~ 5 DIAS
10" CAMBER.
TRANSVERSE BEAM 11 x 3 1/2 x 3 1/2 x .48 CHANNEL.
.36"
3 1/2" FLANGE
.42 - .38
8'-3"
8'-10"
3 7/8" DIA SOLID PILLAR.
21'-0" HATCH.
STRINGER .34
DECK PLATING .34 (SEE DECK PLAN).
DECK LONGITUDINALS 5 1/2 x 3 x .30 B.A. (RIVS SPACED ABOUT 6 DIAS).
.42 - .38
2ND DK.
3 x 3 x .38 SINGLE RIVETS SPACED ~~ABOUT~~ 5 DIAS APART.
RIVS. SPACED 6 DIAS APART.
3" CAMBER.
SHELL INCREASED IN WAY OF COFFERDAM (SEE SKETCH).
.38
3 1/2" FLANGE.
FENDER 11" x 8"
TRANSVERSE BEAM 12 x .38
FACE BAR 6 x 3 1/2 x .38 O.A SINGLE.
.42 - .38
DR.
W.T. BULKHEADS TO BE SUBMITTED.
.625
SIDE TRANSVERSE 15" x .50 x 4 x 4 x .64 CHANNEL. WITH 3 1/2 x 3 x .40 REVERSE BAR.
SPACED 8-0" APART.
ATTACHMENT TO SHELL - 6 - 7/8 DIA RIVETS IN EACH SPACE.
4 7/8 DIA SOLID PILLAR
hard bearing fit at heads & heels.
21.12.23.
.42 - .38
lug
20 - 7/8" RIVETS.
rivetting widened out
10 - 3/4" RIVS.
.36 PLATE.
.54
DOUBLE 5 x 3 1/2 x .40
DOUBLE 5 x 3 x .32
3 x 3 x .38
TANK TOP PLATING .40
" " LONGITUDINALS 6 x 3 x .38 B.A.
RIVETS 5 DIAS APART
SINGLE
3 x 3 x .32
FLOORS .32"
2 1/2 x 2 1/2 x .32
11 - 3/4 RIVS.
MIDDLE LINE STRAKE .40"
6 x 4 x 1/2 TEE BAR.
3 x 3 x .38"
5 x 5 x .40 SINGLE
30" x .44 - .38
DR.


FLANGED BKT
.32
.54
SINGLE
3 x 3 x .32

SKETCH IN WAY OF INTERMEDIATE BKT.

BOTTOM LONGITUDINALS 7 x 3 x .34 B.A.

" PLATING .42 - .38"

MIDSHIP THICKNESS OF 3 STRAKES NEXT KEEL CARRIED FORWARD TO RULE POSITION COLLISION BULKHEAD.

KEEL 43 x .56 - .50"

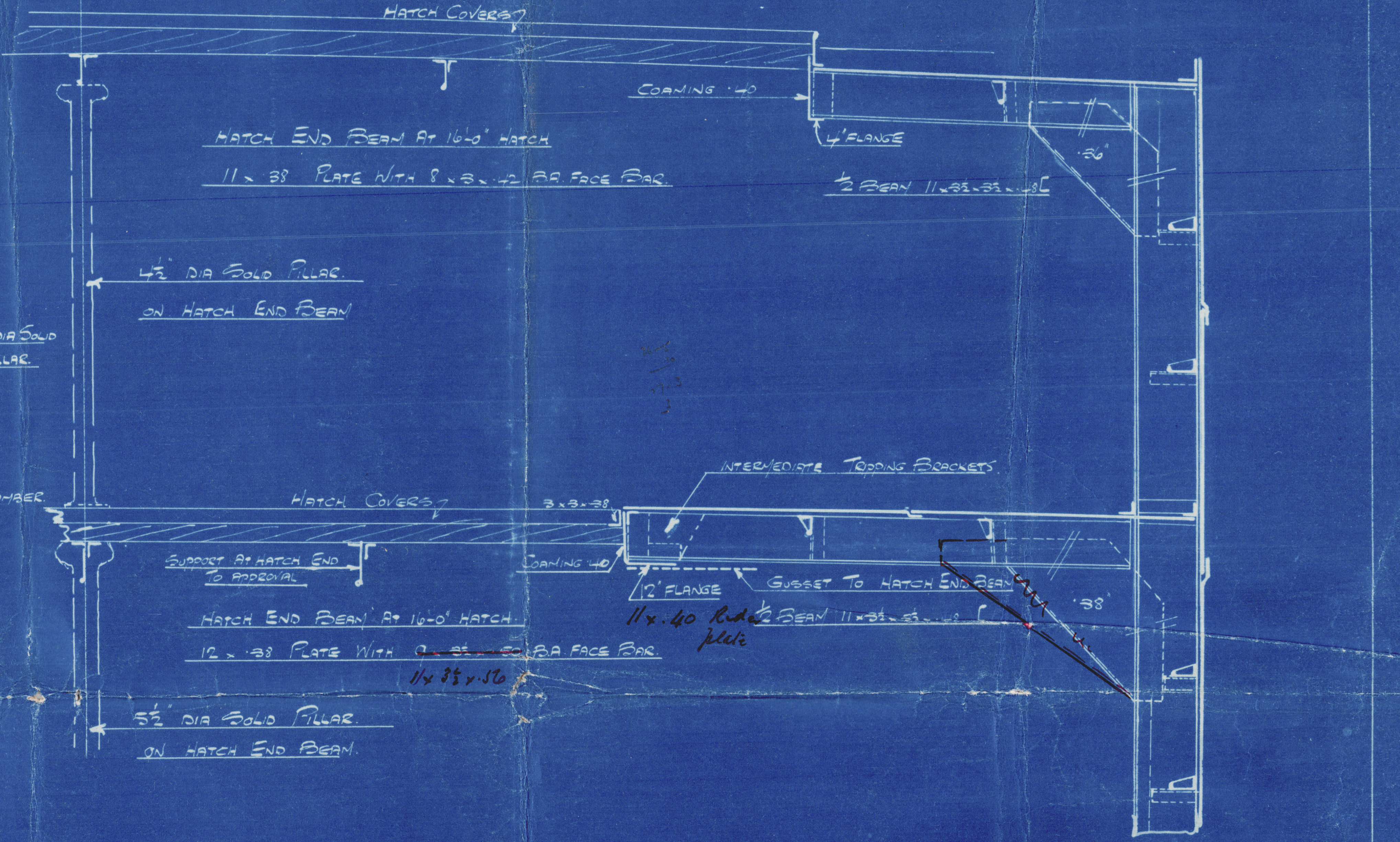
" ANGLE 3 1/2 x 3 1/2 x .44 - .38"

STEM 8 x 2 1/2 TAPERED AT TOP

STERN POST 8 x 5 TO 8 x 4

RUDDER STOCK AS PER RULE

SECTION IN WAY OF 16'-0" HATCHES.


HATCH COVERS
COAMING .40
4" FLANGE
HATCH END BEAM AT 16'-0" HATCH
11 x .38 PLATE WITH 8 x 3 x .42 B.A. FACE BAR.
.36"
1/2 BEAM 11 x 3 1/2 x 3 1/2 x .48 C
4 1/2" DIA SOLID PILLAR.
ON HATCH END BEAM
INTERMEDIATE TRIPPING BRACKETS.
3" CAMBER.
HATCH COVERS
3 x 3 x .38
SUPPORT AT HATCH END TO APPROVAL
COAMING .40
12" FLANGE
GUSSET TO HATCH END BEAM
11 x .40 Rider plate
1/2 BEAM 11 x 3 1/2 x 3 1/2 x .48 C
.38"
HATCH END BEAM AT 16'-0" HATCH.
12 x .38 PLATE WITH ~~9 x 3 1/2 x .50~~ B.A FACE BAR.
11 x 3 1/2 x .56
5 1/2" DIA SOLID PILLAR.
ON HATCH END BEAM.

RIVETING NOTES.

ALL BUTTS TO BE OVERLAPPED.

SHEERSTRAKE BUTTS. TREBLE RIV. FOR 1/2 L. TO DOUBLE AT ENDS.

STRAKE BELOW. " Do

UPPER. DK STRINGER PLATE BUTTS QUAD. RIV. FOR 1/2 L. TO TREBLE WHERE OVER .42 AND DOUBLE BEYOND

BOTTOM PLATING. BUTTS. TREBLE RIV. FOR 1/2 L. TO DOUBLE AT ENDS.

CENTRE GIRDER " " " " " " "

KEEL PLATE " " " FORE + AFT

SIDE PLATING. " " " FOR 1/2 L. TO DOUBLE AT ENDS.

2ND DK STRINGER PLATE " DOUBLE " FORE & AFT.

MARGIN PLATE " " " " " "

T.T. MIDDLE LINE STRAKE " " " " " "

UPPER & 2ND Dk PLATING " " " FOR 1/2 L. TO SINGLE AT ENDS.

T.T. PLATING. " " " FORE & AFT

FOR SEAM RIVETING SEE MIDSHIP SECTION.

MESSRS FURNESS SHIPBUILDING CO LTD.
HAVERTON HILL-ON-TEES.
PLAN No 1388 ISH No 1450
17 - XII - 23.

S. S. Kamloops.

Furness Shipbg Coys No. 68

Midship Section
(as built).

S.S. Kamloops
MDB. RPT. No. 11981

(see late)

RETAIN

W666-0106

S/S "KAMLOOPS" & S/S "LETHBRIDGE"

MIDSHIP SECTION.

TWEEN DECK PACKAGE FREIGHTER.

LLOYDS + WITH FREEBOARD.
TO CLASS 100. A.1. FOR SERVICE ON THE GREAT LAKES & R. ST. LAWRENCE
&
B.S.*

SCALE ½" = 1-0"

ISHERWOOD SYSTEM.

DIMENSIONS.

LENGTH O.A.	258'-0"
" B.P.	250'-0"
BREADTH MLD	42-9"
DEPTH MLD	26'-6"
DRAFT	14'-0"

EQUIPMENT.

2 BOWERS STOCKLESS 36 CWTS EACH.

1 STREAM 11¼ CWTS EX STOCK

210 FATHOMS 1 11/16 STUD CHAIN CABLE

75 " 3½" STEEL WIRE STREAM LINE

2-90 " 6½" MANILLA.

2-90 " 5 "

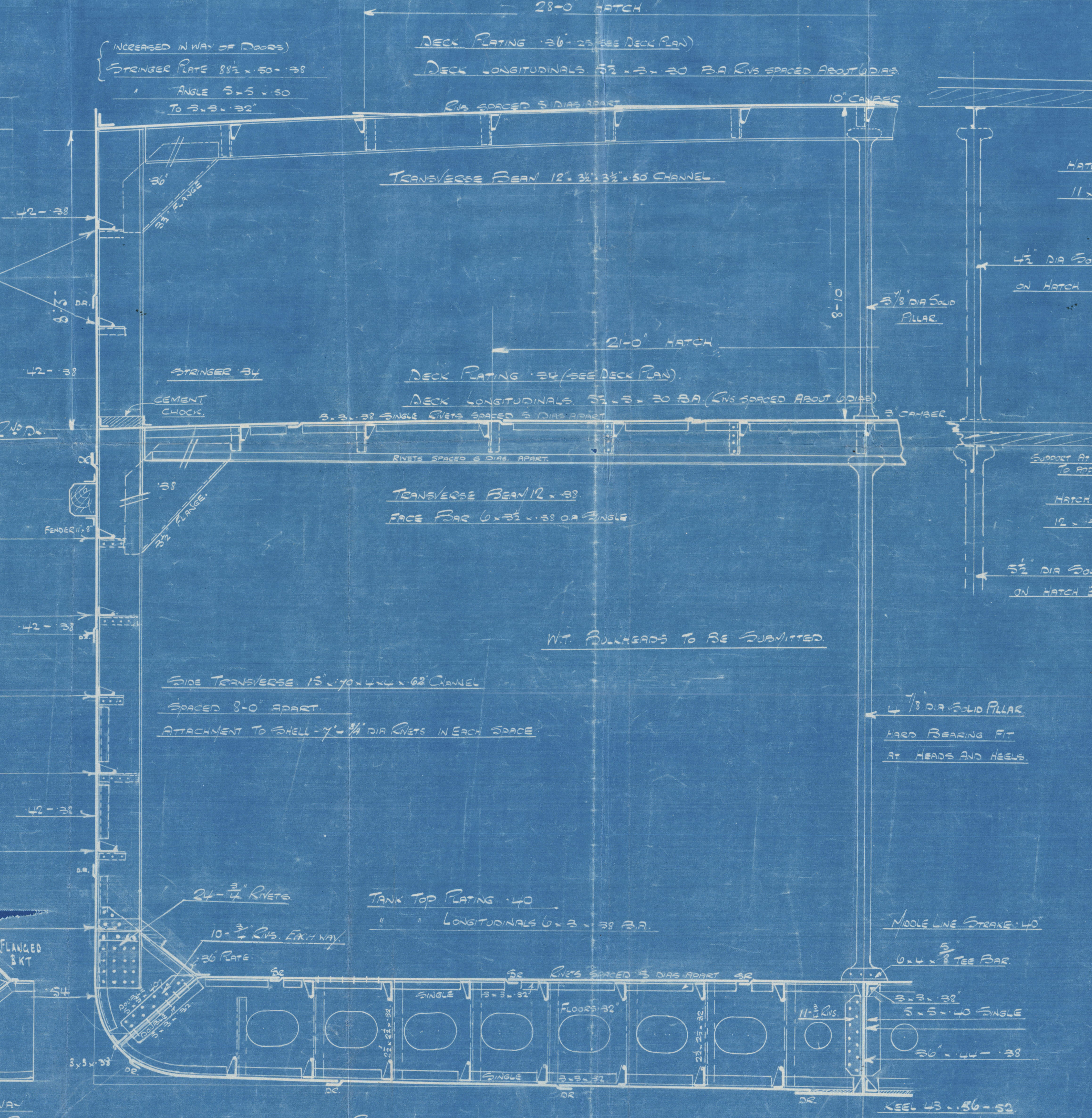
105 " 3½" STEEL WIRE TOWLINE

RIVETS ¾" DIA

RIVETING IN LONGITUDINALS.	No OF RIVETS IN LONGL. BUTTS.	No OF RIVS IN BULKD BKTS.	
RIVETS SPACED 6 DIAS APART	6	5.	Nos 1 & 1A 5½ × 3 × .30 B.A.
RIVETS SPACED 6 DIAS APART	6	5.	No 2 5½ × 3 × .30 B.A
Do	6	5.	No 3 Do
Do	6	5.	No 4 Do
Do	6	5.	No 5 Do
Do	6	5.	No 6 6 × 3 × .38 B.A
Do	6	5.	No 7 Do

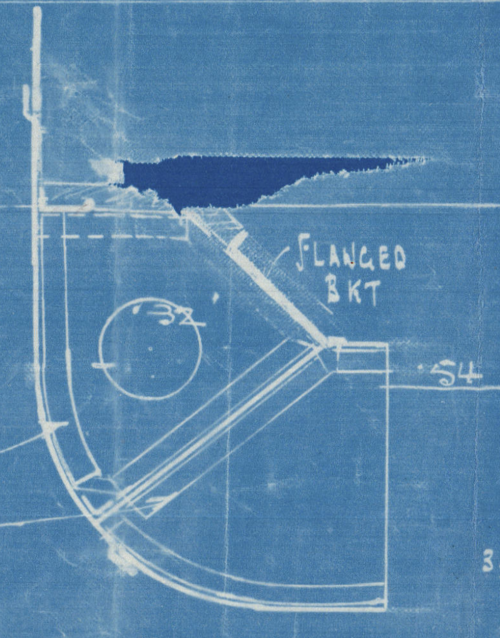
INTS BETWEEN TRANSVERSES.

BOTTOM & TANK TOP LONGLS SPACED AS ABOVE.


UPPER DECK.
28'-0" HATCH.
(INCREASED IN WAY OF DOORS)
STRINGER PLATE 88½ × .50 - .38
" ANGLE 5 × 5 × .50 TO 3 × 3 × .32"
DECK PLATING .36 - .25 (SEE DECK PLAN).
DECK LONGITUDINALS 5½ × 3 × .30 B.A. RIVS SPACED ABOUT 6 DIAS.
RIVS SPACED 5 DIAS APART.
10" CAMBER.
.36"
3½" FLANGE
TRANSVERSE BEAM 12" × 3½" × 3½" × .50" CHANNEL.
.42 - .38
8'-3" D.R.
8'-0"
3⅞" DIA SOLID PILLAR.
21'-0" HATCH.
STRINGER .34
CEMENT CHOCK.
DECK PLATING .34 (SEE DECK PLAN).
DECK LONGITUDINALS 5½ × 3 × .30 B.A. (RIVS SPACED ABOUT 6 DIAS).
3 × 3 × .38 SINGLE RIVETS SPACED 5 DIAS APART
3" CAMBER.
RIVETS SPACED 6 DIAS. APART.
2ND DK.
SHELL INCREASED IN WAY OF COFFERDAM (SEE SKETCH).
FENDER 11" × 8"
.38
3½" FLANGE.
TRANSVERSE BEAM 12 × .38
FACE BAR 6 × 3½ × .38 O.A. SINGLE.
W.T. BULKHEADS TO BE SUBMITTED.
SIDE TRANSVERSE 15" × .70 × 4 × 4 × .62" CHANNEL
SPACED 8-0" APART.
ATTACHMENT TO SHELL - 7 - ¾" DIA RIVETS IN EACH SPACE
4⅞" DIA SOLID PILLAR.
HARD BEARING FIT AT HEADS AND HEELS.
D.R.
24 - ¾" RIVETS.
10 - ¾" RIVS. EACH WAY.
.36" PLATE.
.54
DOUBLE 5 × 3 × .40
DOUBLE 5 × 3 × .32
3 × 3 × .38
TANK TOP PLATING .40
" " LONGITUDINALS 6 × 3 × .38 B.A.
RIVETS SPACED 5 DIAS APART
SINGLE
3 × 3 × .32
FLOORS .32"
2½ × 2½ × .32
11 - ¾ RIVS.
MIDDLE LINE STRAKE .40"
6 × 4 × ⅝" TEE BAR.
3 × 3 × .38"
5 × 5 × .40 SINGLE
36" × .44 - .38
DR.

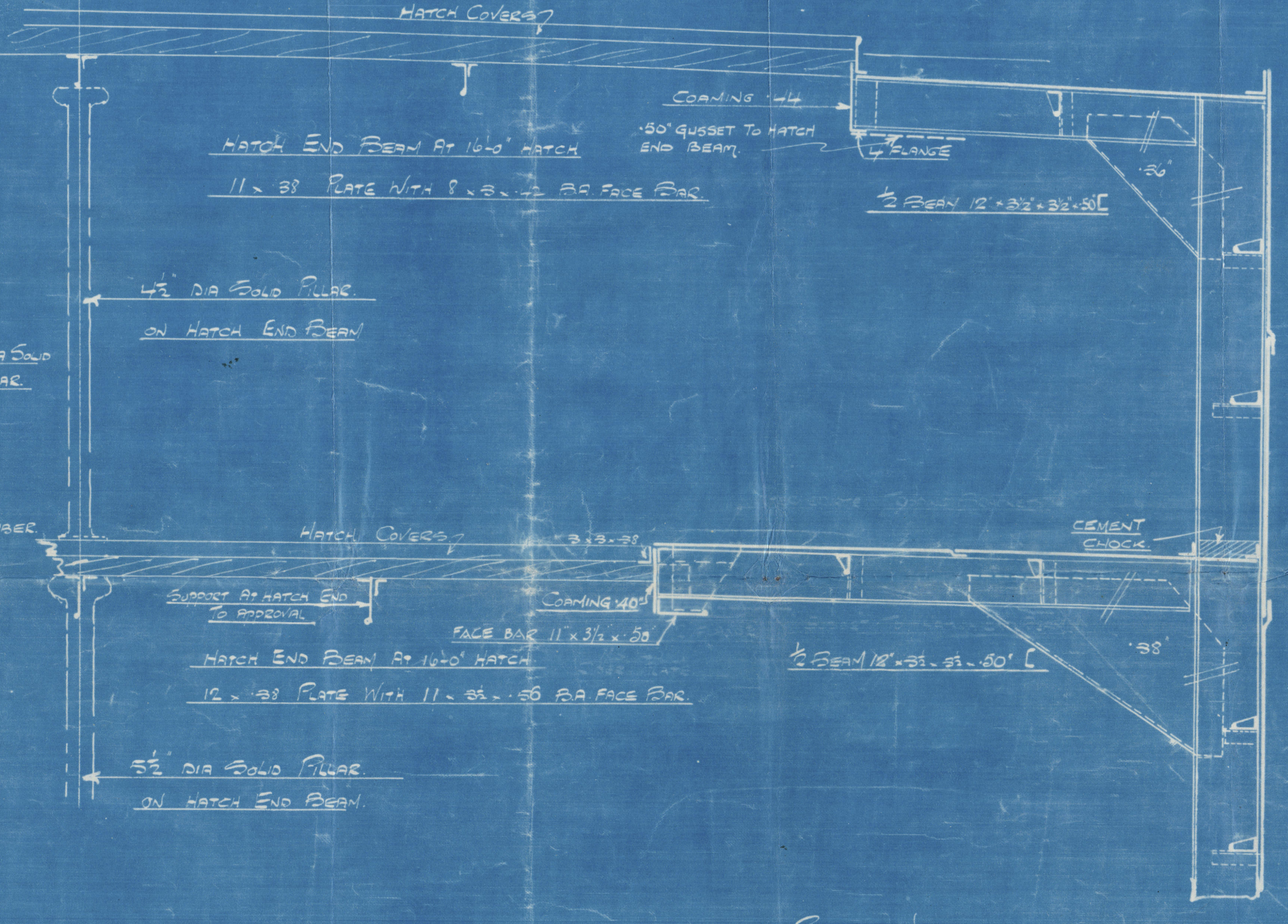
BOTTOM LONGITUDINALS 7 × 3 × .34" B.A.
" PLATING .42 - .38"
MIDSHIP THICKNESS OF 3 STRAKES NEXT KEEL CARRIED FORWARD
TO RULE POSITION COLLISION BULKHEAD.

KEEL 43 × .56 - .52.
" ANGLE 3½ × 3½ × .44 - .38"
STEM 8 × 2½ TAPERED AT TOP
STERN POST 8 × 5 TO 8 × 4
RUDDER STOCK AS PER RULE


FLANGED BKT
.32
.54
SINGLE 3 × 3 × .32

SKETCH IN WAY OF INTERMEDIATE BKT.

SECTION IN WAY OF 16'-0" HATCHES.


HATCH COVERS
COAMING .44
.50" GUSSET TO HATCH END BEAM.
4" FLANGE
HATCH END BEAM AT 16'-0" HATCH
11 × .38 PLATE WITH 8 × 3 × .42 B.A. FACE BAR.
.36"
½ BEAM 12" × 3½" × 3½" × .50" [
4½" DIA SOLID PILLAR ON HATCH END BEAM
HATCH COVERS
3 × 3 × .38
CEMENT CHOCK.
SUPPORT AT HATCH END TO APPROVAL
COAMING .40"
FACE BAR 11" × 3½ × .58
HATCH END BEAM AT 16'-0" HATCH
12 × .38 PLATE WITH 11 × 3½ × .56 B.A. FACE BAR.
½ BEAM 12" × 3½ × 3½ × .50" [
.38"
5½" DIA SOLID PILLAR ON HATCH END BEAM.

RIVETING NOTES.

ALL BUTTS TO BE OVERLAPPED.

SHEERSTRAKE BUTTS. TREBLE RIV. FOR ½L. TO DOUBLE AT ENDS.
STRAKE BELOW " Do
UPPER DK STRINGER PLATE BUTTS QUAD. RIV. FOR ½L. TO TREBLE WHERE OVER .42 AND DOUBLE BEYOND
BOTTOM PLATING. BUTTS. TREBLE RIV. FOR ½L. TO DOUBLE AT ENDS.
CENTRE GIRDER " " " " " "
KEEL PLATE " " " FORE + AFT
SIDE PLATING. " " " FOR ½L. TO DOUBLE AT ENDS.
2ND DK STRINGER PLATE " DOUBLE " FORE & AFT.
MARGIN PLATE " " " " " "
T.T. MIDDLE LINE STRAKE " " " " " "
UPPER & 2ND DS PLATING " " " FOR ½L. TO SINGLE AT ENDS.
T.T. PLATING. " " " FORE & AFT

FOR SEAM RIVETING SEE MIDSHIP SECTION.

FURNESS SHIPBUILDING COMPANY LTD. HAVERTON HILL-ON-TEES
Dept. S.D.O
Issue No. X6288
Date 30-8-24

MESSRS FURNESS SHIPBUILDING CO LTD.
HAVERTON HILL-ON-TEES.
PLAN No 1388 ISH No 1450
17 - XII - 23.

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W66L 06

S. S. "KAMLOOPS"

Midship Section

Copy of plan (as built) as sent to Owners.

For retention in the London Office

Certified Correct
14/5/25
See cpndnce

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Foundation

W666-0102

S.S. "KAMLOOPS."

MIDSHIP SECTION.

TWEEN DECK PACKAGE FREIGHTER

LLOYDS + WITH FREEBOARD.
TO CLASS 100. A.1. FOR SERVICE ON THE GREAT LAKES & R. ST. LAWRENCE
& B.S. *

SCALE ½ = 1-0"

ISHERWOOD SYSTEM.

DIMENSIONS.

LENGTH O.A.	258'-0"
" B.P.	250-0"
BREADTH M^LD	42-9"
DEPTH M^LD	26-6"
DRAFT	14-0"

EQUIPMENT.

2 BOWERS STOCKLESS 35 CWTS. 2 QRS. EACH
1 " " 34 CWTS 3 QRS 14 lbs.
1 STREAM 11 CWTS 1 QR. 8 lbs. EX. STOCK.
210 FATHOMS 1 1/16 STUD. CHAIN CABLE
75 " 4" STEEL WIRE STREAM LINE
2-90 6½" MANILLA.
2-90 " 5 "
105 " 3½" STEEL WIRE TOWLINE
90 " 3¾ STEEL WIRE

RIVETS ¾" DIA.

	N^o OF RIVETS IN LONGL. BUTTS.	N^o OF RIVS IN BULK^D BKTS.	
RIVETING IN LONGITUDINALS			
RIVETS SPACED 6 DIAS APART	6	5	N°s 1 & 1^A 5½ × 3 × ·30 B.A.
RIVETS SPACED 6 DIAS APART	6	5.	N° 2 5½ × 3 × ·30 B.A.
D^o	6	5.	N° 3 D^o
D^o	6	5.	N° 4 D^o
D^o	6	5.	N° 5 D^o
D^o	6	5.	N° 6 6 × 3 × ·38 B.A.
D^o	6	5.	N° 7 D^o

BOTTOM & TANK TOP LONG^LS SPACED AS ABOVE.

UPPER DECK
28-0" HATCH
DECK PLATING ·36-·30 SEE DECK PLAN)
DECK LONGITUDINALS 5½ × 3 × ·30 B.A. RIVS SPACED ABOUT 6 DIAS
(INCREASED IN WAY OF DOORS)
STRINGER PLATE 88½ × ·50 - ·38
" ANGLE 5 × 5 × ·50
TO 3 × 3 × ·32"
RIVS SPACED 5 DIAS APART
10" CAMBER
TRANSVERSE BEAM 12" × 3½ 3½ × ·50 CHANNEL
·36"
3½" FLANGE
·42 - ·38
8'-3" D.R.
8'-0"
⅞ DIA SOLID PILLAR.
21'-0" HATCH
STRINGER ·34
DECK PLATING ·34 (SEE DECK PLAN).
DECK LONGITUDINALS 5½ × 3 × ·30 B.A. (RIVS SPACED ABOUT 6 DIAS)
CEMENT CHOCK.
3 × 3 × ·38 SINGLE RIVETS SPACED 5 DIAS APART
RIVETS SPACED 6 DIAS. APART.
3" CAMBER.
·38
3½" FLANGE.
TRANSVERSE BEAM 12 × ·38
FACE BAR 6 × 3½ × ·38 O.A. SINGLE
FENDER 11" × 8"
·42 - ·38
SHELL INCREASED IN WAY OF COFFERDAN
SIDE TRANSVERSE 15" × ·70 × 4·3 × 4·3 × ·62 CHANNEL
SPACED 8-0" APART.
ATTACHMENT TO SHELL - 7 - ¾" DIA RIVETS IN EACH SPACE
·42 - ·40
4 ⅞ DIA SOLID PILLAR
HARD BEARING FIT
AT HEADS AND HEELS.
INT^L BETWEEN TRANSVERSES.
FLANGED BKT
·32
SINGLE
3 × 3 × ·32
·54
·42 FOR^D
·45 AFT.
SKETCH IN WAY OF INTERMEDIATE BKT.
24 - ¾" RIVETS.
10 - ¾" RIVS. EACH WAY
·36 PLATE.
DOUBLE 3 × 3 × ·32
3 × 3 × ·38
D.R.
TANK TOP PLATING ·42
" " LONGITUDINALS 6 × 3 × ·38 B.A.
RIVETS SPACED 3 DIAS APART
SINGLE
3 × 3 × ·32
FLOORS ·32"
2½ × 2½ × ·32
11 - ¾ RIVS.
·42 - ·46 FOR^D - ·42 AFT
·42 - ·46 FOR^D - ·43 AFT.
BOTTOM LONGITUDINALS 4 × 3 × ·34 B.A.
MIDDLE LINE STRAKE ·40"
6 × 4 × ⅝" TEE BAR.
3 × 3 × ·38"
5 × 5 × ·40 SINGLE
36" × ·44 - ·38
SECTION IN WAY OF 16'-0" HATCHES.
HATCH COVERS
COAMING ·40"
·50" GUSSET TO HATCH END BEAM.
4" FLANGE
HATCH END BEAM AT 16'-0" HATCH
11 × ·38 PLATE WITH 8 × 3 × ·40 B.A. FACE BAR
½ BEAM 12" × 3½" × 3½" × ·50 [
·36"
4½" DIA SOLID PILLAR.
ON HATCH END BEAM
3" CAMBER.
HATCH COVERS
3 × 3 × ·38
SUPPORT AT HATCH END TO APPROVAL
COAMING ·40"
FACE BAR 11" × 3½ × ·58"
CEMENT CHOCK
HATCH END BEAM AT 16'-0" HATCH
12 × ·38 PLATE WITH 11 × 3½ × ·56 B.A. FACE BAR.
½ BEAM 12" × 3½ × 3½ × ·50" [
·38"
5½" DIA SOLID PILLAR.
ON HATCH END BEAM.

KEEL 43 × ·56 - ·52 FOR^D - ·50 AFT.
" ANGLE 3½ × 3½ × ·44 - ·38"
STEM 8 × 2½ TAPERED AT TOP
STERN POST 8 × 5 TO 8 × 4
RUDDER STOCK AS PER RULE

MIDSHIP THICKNESS OF 3 STRAKES NEXT KEEL CARRIED FORWARD TO RULE POSITION COLLISION BULKHEAD.

RIVETING NOTES.

ALL BUTTS TO BE OVERLAPPED.

SHEERSTRAKE BUTTS. TREBLE RIV. FOR ½L. TO DOUBLE AT ENDS.
STRAKE BELOW " DO
UPPER DK STRINGER PLATE BUTTS QUAD RIV. FOR ½L TO TREBLE WHERE OVER ·42 AND DOUBLE BEYOND
BOTTOM PLATING. BUTTS. TREBLE RIV. FOR ½L. TO DOUBLE AT ENDS
CENTRE GIRDER " " " " " "
KEEL PLATE " " " FORE & AFT
SIDE PLATING. " " " FOR ½L. TO DOUBLE AT ENDS.
2ND DK STRINGER PLATE " DOUBLE " FORE & AFT.
MARGIN PLATE " " " " " "
T.T. MIDDLE LINE STRAKE. " " " " "
UPPER & 2ND D^S PLATING " " " FOR ½L. TO SINGLE AT ENDS.
T.T. PLATING. " " " FORE & AFT

FOR SEAM RIVETING SEE MIDSHIP SECTION.

MESSRS FURNESS SHIPBUILDING CO LTD.
HAVERTON HILL-ON-TEES.
PLAN N° 1388 ISH N° 1450
17 - XII - 23.

FURNESS SHIPBUILDING COMPANY, LTD., HAVERTON HILL-ON-TEES
Dept. S.D.O.
Issue No. X 7240.
Date 6-5-25.

LLOYD'S REGISTER OF SHIPPING
R.J.
MIDDLESBROUGH

W666-0102

MAIN BOILERS

Nos 2645 & 2646

RICHARDSONS

WESTGARTH & Co.

FURNESS S.B. Co.

SS Nos 68 & 69.

RETAIN

2645

No 3636
Lloyds Test
328 LBS.
W.P. 185 LBS
15.4.24 RDS

S.S. "Kamloops". Hpl Rpt 16202.
Mat 11981.

2646

No 3638
Lloyds Test
328 lbs
WP 185 lbs
13.5.24 RDS

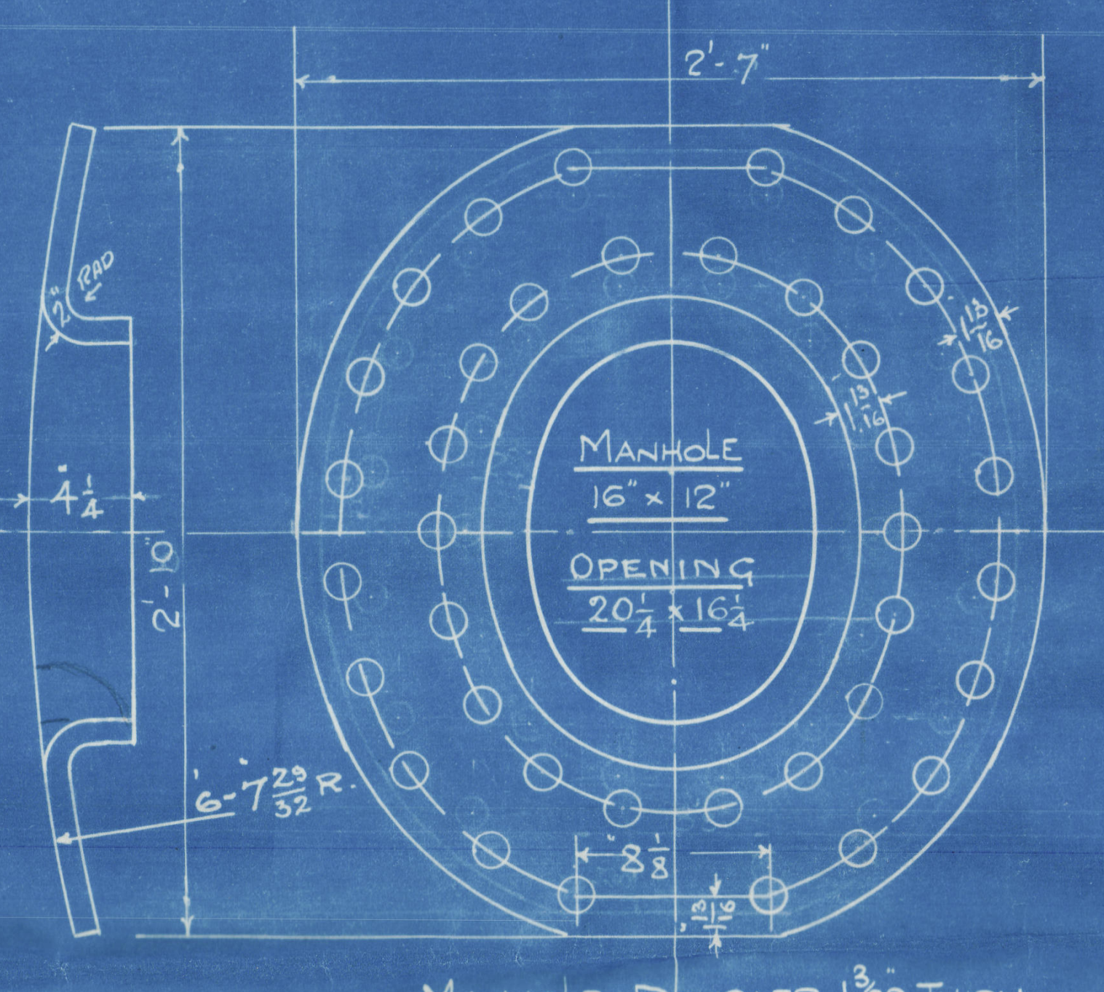
Lethbridge
Mdb 12056.

W666-0103

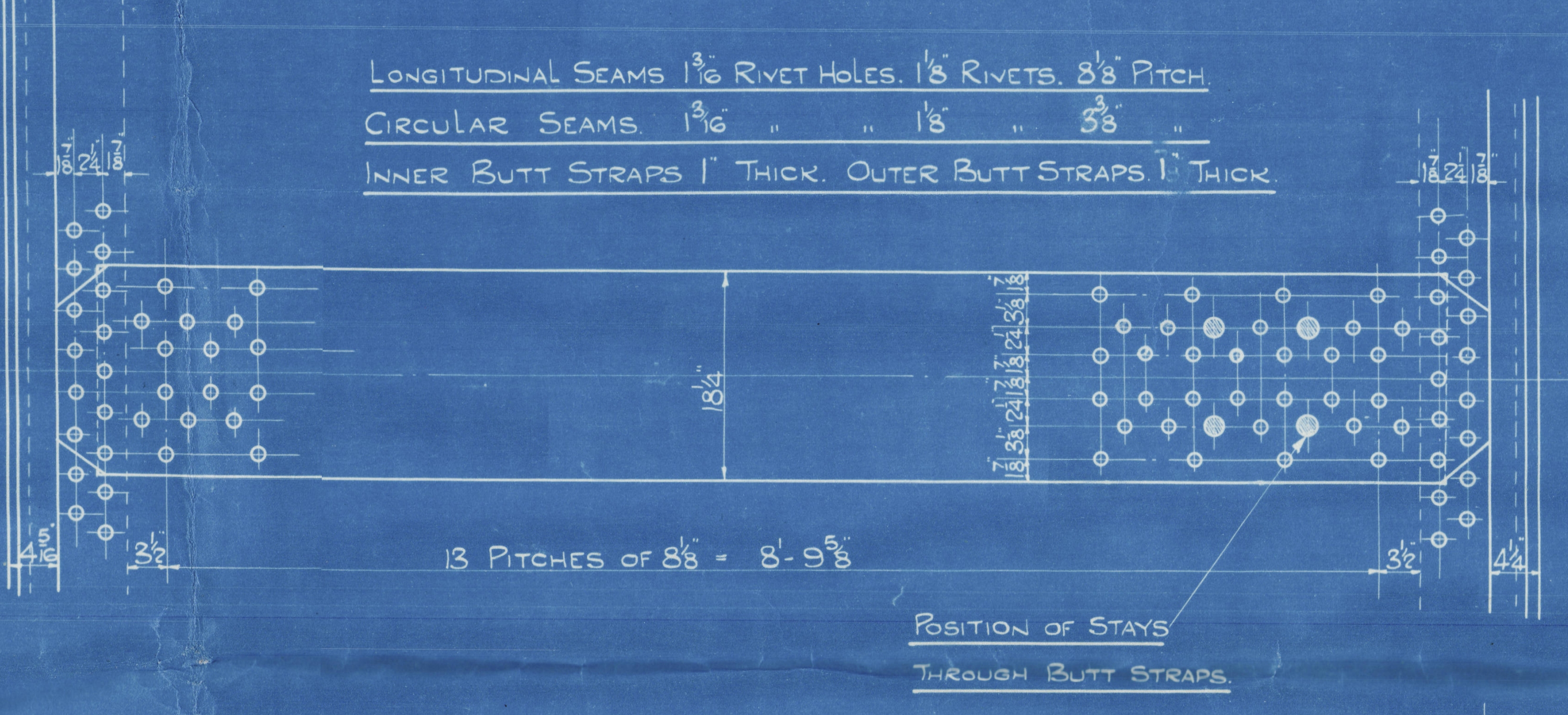
18/1/24

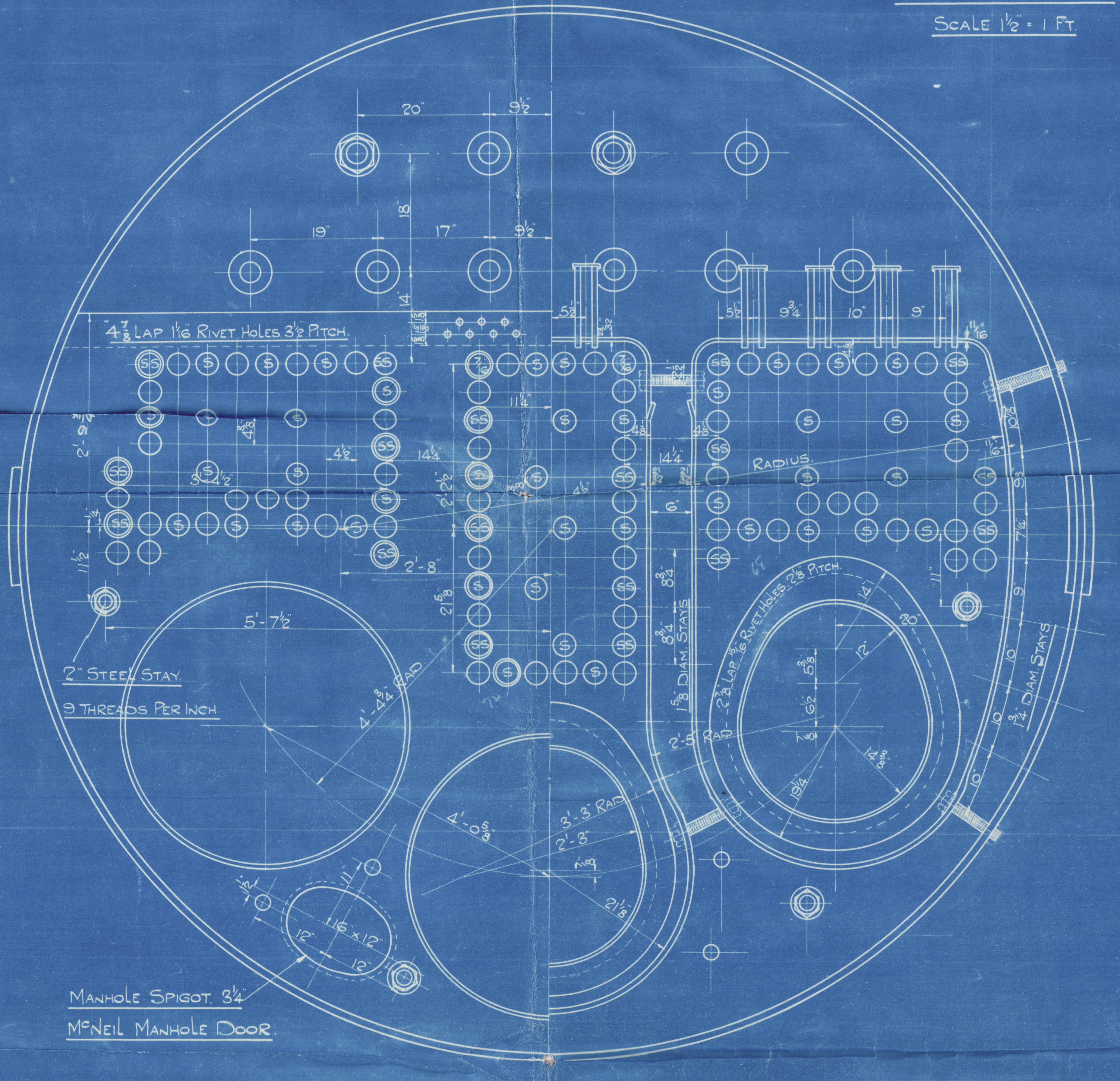
Heating Surface	
Tubes	1371 ☐'
Plates	359 ☐'
1 Boiler	1730 ☐'
2 Boilers	3460 ☐'

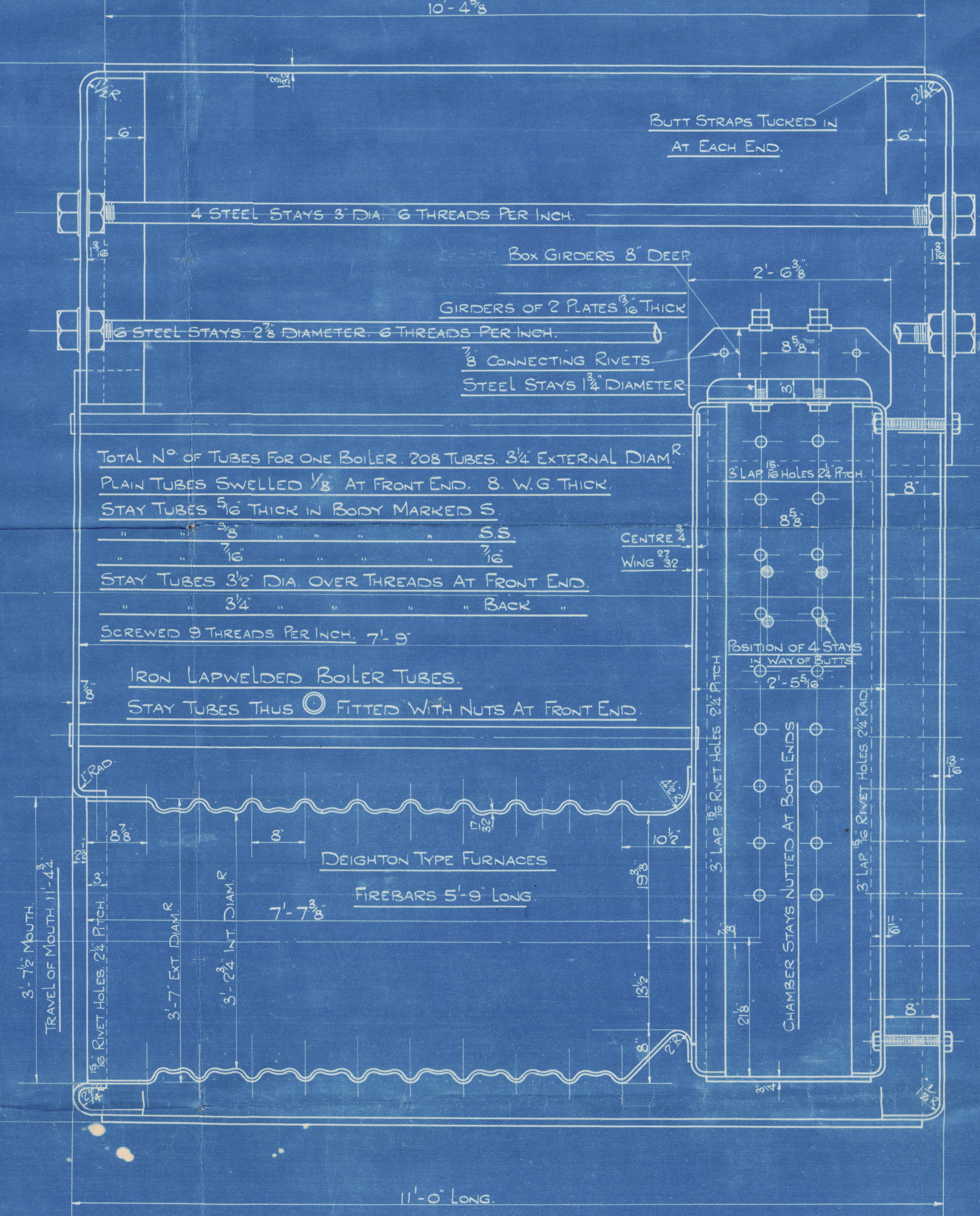
Grate Area	
1 Boiler	57½ ☐'
2 Boilers	115 ☐'.

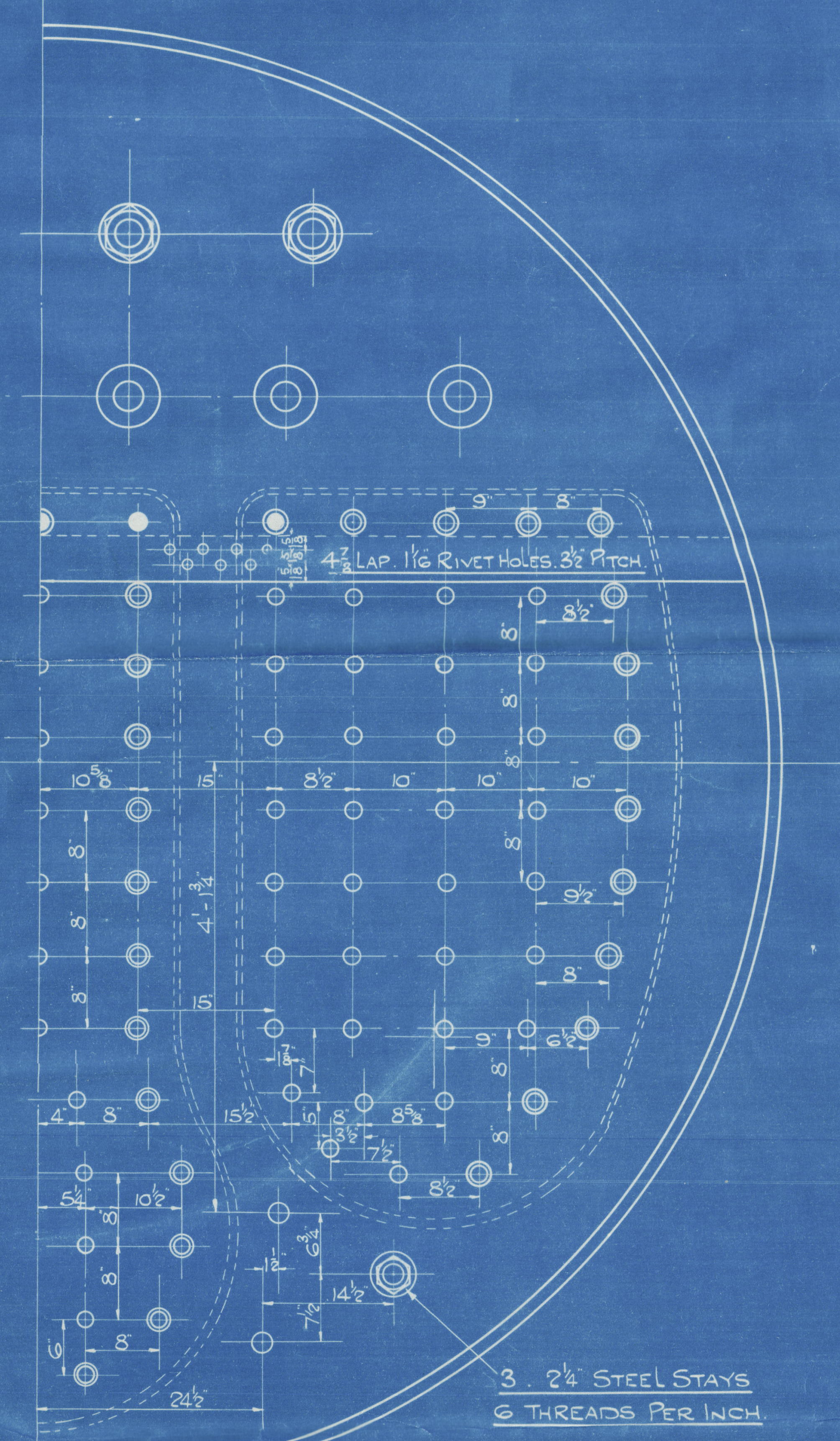

2'-7"
2" Rad
4 1/4
2'-10"
6'-7 29/32 R.
Manhole 16" × 12"
Opening 20 1/4 × 16 1/4
8 1/8
1 13/16

Manhole Doubler 1 3/32" Thick.
1 3/16 Rivet Holes. Rivets 1 1/8 Dia.
Mc Neil Manhole Door
Scale 1½" = 1 Ft.


Longitudinal Seams 1 3/16" Rivet Holes. 1 1/8" Rivets. 8 1/8" Pitch.
Circular Seams. 1 3/16" " " 1 1/8" " 3 3/8" "
Inner Butt Straps 1" Thick. Outer Butt Straps 1" Thick.
18 1/4
13 Pitches of 8 1/8" = 8'-9 5/8"
3½"
4 5/16
4 1/4
Position of Stays
Through Butt Straps.


20"
9½"
19"
17"
18"
14"
4 7/8 Lap 1 1/16 Rivet Holes 3½ Pitch.
S
SS
Radius.
2'-8"
5'-7½"
2" Steel Stay.
9 Threads Per Inch
4'-4 3/4" Rad
1 5/8" Diam. Stays
2 1/8 Lap 15/16 Rivet Holes 2 1/8 Pitch.
1 3/4" Diam. Stays
2'-5" Rad
4'-0 5/8"
3'-3" Rad
2'-3"
16 × 12"
12"
Manhole Spigot. 3 1/4"
Mc Neil Manhole Door.


10'-4 5/8"
13'-6" External Diameter
Butt Straps Tucked in At Each End.
6"
4 Steel Stays 3" Dia. 6 Threads Per Inch.
Box Girders 8" Deep.
2'-6 3/8"
Girders of 2 Plates 13/16" Thick
6 Steel Stays. 2 7/8" Diameter. 6 Threads Per Inch.
7/8" Connecting Rivets.
Steel Stays 1 3/4" Diameter.
8 5/8"
Total No. of Tubes for One Boiler. 208 Tubes. 3 1/4" External Diam.
Plain Tubes Swelled 1/8 At Front End. 8. W.G. Thick.
Stay Tubes 5/16" Thick in Body Marked S.
" " 3/8 " " " " S.S.
" " 7/16 " " " " 7/16
Stay Tubes 3½" Dia. Over Threads At Front End.
" " 3 1/4" " " " Back "
Screwed 9 Threads Per Inch. 7'-9"
Iron Lapwelded Boiler Tubes.
Stay Tubes Thus ◎ Fitted With Nuts At Front End.
Centre 3/4
Wing 27/32
3" Lap 15/16 Holes 2 1/4 Pitch.
Position of 4 Stays in Way of Butts.
2'-5 5/16"
20½"
3" Lap 15/16 Rivet Holes 2 1/4 Pitch
Chamber Stays Nutted At Both Ends
3" Lap 15/16 Rivet Holes 2 1/4 Rad
Deighton Type Furnaces
Firebars 5'-9" Long.
7'-7 3/8"
3'-7½" Mouth
Travel of Mouth 11'-4 3/4"
15/16 Rivet Holes 2 1/4 Pitch.
3'-7" Ext. Diam.
3'-2 3/4 Int. Diam.
1" Rad.
8 7/8"
8"
10½"
19 3/8
13½"
11'-0" Long.


4 7/8 Lap 1 1/16 Rivet Holes 3½ Pitch.
3. 2 1/4 Steel Stays
6 Threads Per Inch.

Combustion Chamber Screw Stays
Screwed 9 Threads Per Inch.
All Stays To Be Nutted At Both Ends.

Stays Thus ● 2 1/8" Diameter
" " ◉ 2" "
" " ◎ 1 7/8" "
" " ○ 1 3/4" "

Boilers To Pass British Corporation Survey & Lloyds.
Board of Trade Survey Up To And Including Test To Comply With The Canadian Law Requirements.

Working Pressure 185 Lbs/☐". Test Pressure 327½ Lbs./☐"

Tensile Strength of Steel Shell Plates & Butt Straps.	29 To 33	Tons.
" " " " Girder Plates & All Other Plates	26 To 30	"
" " " " Furnaces	26 To 28	"
" " " " Main Stays.	28 To 32	"
" " " " Screw Stays.	26 To 30	"
" " " " Rivet Bars.	26 To 30	"

BOILERS No H2645. H2646.

2 Boilers. 2 Boilers.

For Messrs. The Furness Shipbuilding Cos. S/S. Nos. 68 & 69.

Scale 1" = 1 Foot.

C No. 4
18-1-24.

9.1.24

Drawing Office
79309
8 Jan 1924

W666-0103
Lloyd's Register Foundation

Furness Ship Co No. 68-9

Stern Frame & Rudder

S.S. Kamloops (No. 68)
MDB. RPT. No. 11981

Lethbridge
Mdb 12036.

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Lloyd's Register
Foundation

29/12/23.

Nos 68 & 69.

STERN & RUDDER FRAMES.

Stern Frame. Forging. Best Forged Scrap Iron.
To class ~~B.S*~~ 100 A 1 with freeboard (Great Lakes & River St. Lawrence.)

Scarph to be machined & to be a good fit.
All machining & drilling to be done by makers.
No sharp edges on forging where exposed, corners to be rounded off.

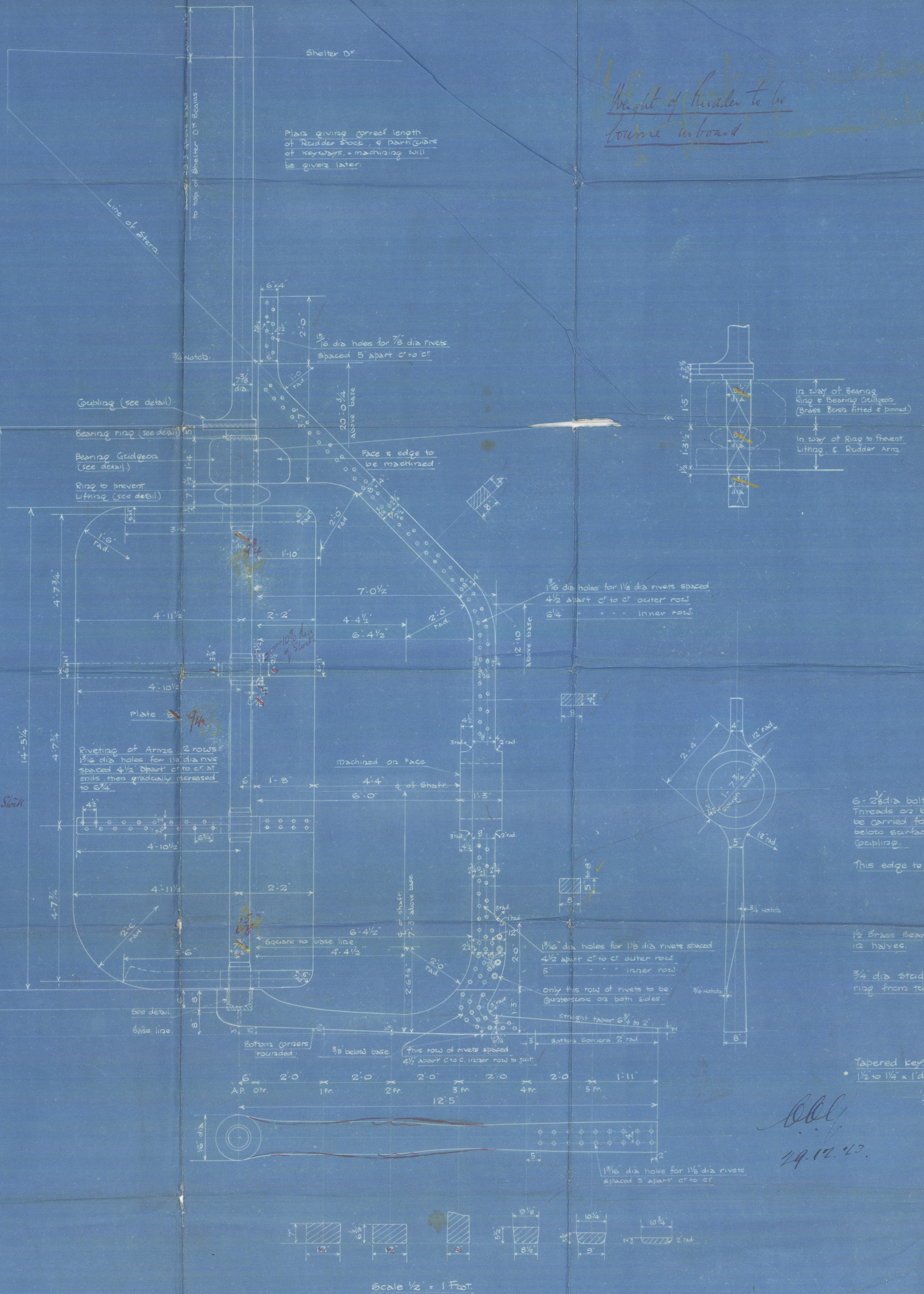
Rudder Frame. Semi-Balanced Type. Forging
Best Forged Scrap Iron.
To class ~~B.S*~~ (Great Lakes & River St. Lawrence)
100 A 1 with freeboard
Arms to be shrunk on & keyed to mainpiece.
Stock & Mainpiece to be coupled together with 6-2⅛ dia bolts.
Coupling to be machined & to be a good fit.
All machining & drilling to be done by makers.

Any alteration to be notified to the Furness Shipbuilding C° Ltd
Dimensions should be carefully worked to as we only pay on weights calculated to these dimensions.
All to be made to B.C. & Lloyds requirements & to be inspected & passed by their surveyors & our representative before leaving makers works.

Principle Dimensions 250'0" B.P. 42'9" Bdth Mld 26'6" Dth Mld	
Speed Under 10 Knots.	
Area of Rudder Forwd. ℄ of Mainpiece.	31.09 sq ft.
" " " Aft - - -	69.8 " "
Centre of Gravity Forwd. - - "	1.08 ft
" " " Aft " " "	2.42 ft.

Draft. (Load) 14'0"

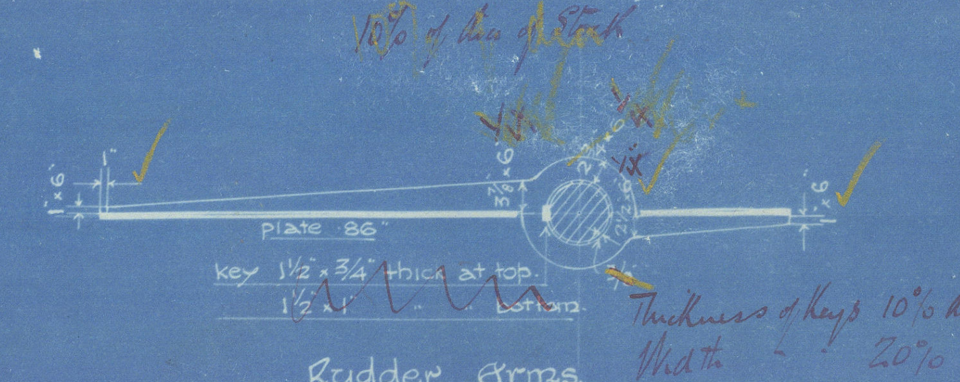
Weight of Rudder to be found aboard


Shelter Dk.
to top of Shelter Dk Beams.
Plan giving correct length of Rudder Stock, & particulars of keyways, & machining will be given later.
Line of Stern.
6"×4"
2'0"
15/16 dia holes for 7/8 dia rivets spaced 5" apart cr to cr.
¾ Notch.
7⅜ dia.
1'0" rad.
3'7"
20'0¾" above base
Coupling (see detail).
Bearing ring (see detail)
Bearing Gudgeon (see detail.)
Ring to prevent Lifting (see detail.)
Face & edge to be machined
1'4"
8"×4"
2'0" rad
1'6" rad.
3'6"
1'10"
7'0½"
4'11½"
2'2"
4'4½"
6'4½"
2'0" rad.
1 3/16 dia holes for 1⅛ dia rivets spaced 4½ apart cr to cr outer row
6¼ " " " inner row.
12'10" above base
10% dia of Stock
4'10½"
Plate 86 94
Riveting of Arms 2 rows 1 3/16 dia holes for 1⅛ dia rivs spaced 4½ apart cr to cr. at ends then gradually increased to 6¾
Machined on Face.
4'4"
℄ of Shaft.
6'0"
1'8"
1'3"
4'7¾"
14'5¼"
Square to base line
2'6" rad
3'6"
2'0" rad.
7'3" above base.
2'6⅜
1 3/16 dia holes for 1⅛ dia rivets spaced 4½ apart cr to cr outer row
5" " " " inner row.
Only this row of rivets to be countersunk on both sides.
¾ Notch.
See detail.
base line.
Bottom corners rounded.
⅜ below base
This row of rivets spaced 4½ apart C to C. inner row to suit.
Straight taper 6¾ to 2"
Bottom corners 2" rad.
A.P. 0 Fr.
1 Fr.
2 Fr.
3 Fr.
4 Fr.
5 Fr.
6
2'0"
2'0"
2'0"
2'0
2'0
1'11"
12'5"
16" dia
1 3/16 dia holes for 1⅛ dia rivets spaced 5" apart cr to cr
2'4"
12" rad
1'7¾ bore
12" rad
5"
8"
In way of Bearing Ring & Bearing Gudgeon (Brass Bush fitted & pinned.)
In way of Ring to Prevent Lifting & Rudder Arm.
1'5"
1'3½"
12"
8"
8"
9⅛
8½
10¼
9"
10¾
2" rad.

Scale ½" = 1 Foot.

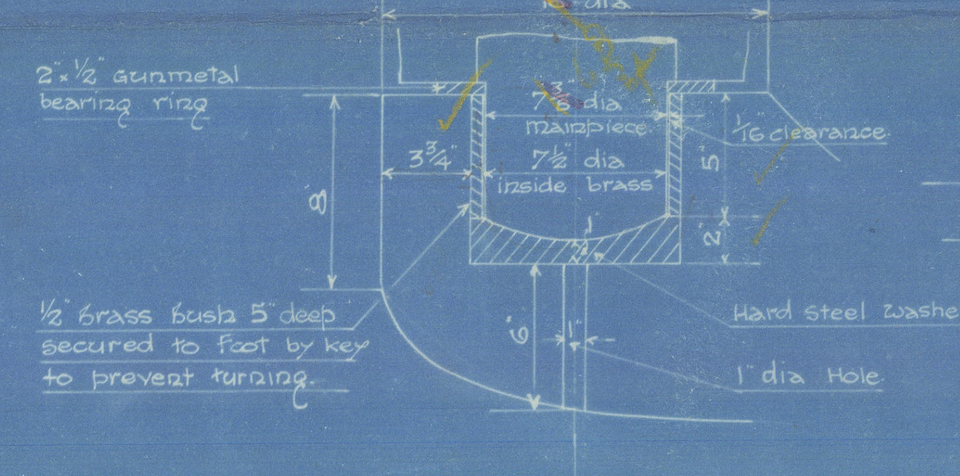
Arms round Mainpiece	2¾" thick.
Arms at point	6" × 1"
Arms at Mainpiece.	6¼" × 3⅞ & 6¼" × 2½ thick
Mainpiece swelled ~~⅜ all round in way of Arms.~~	

10% of dia of Stock


1"×6
plate 86"
key 1½" × ¾" thick at top.
1½" × 1" " bottom.
Mainpiece 17'4⅞"

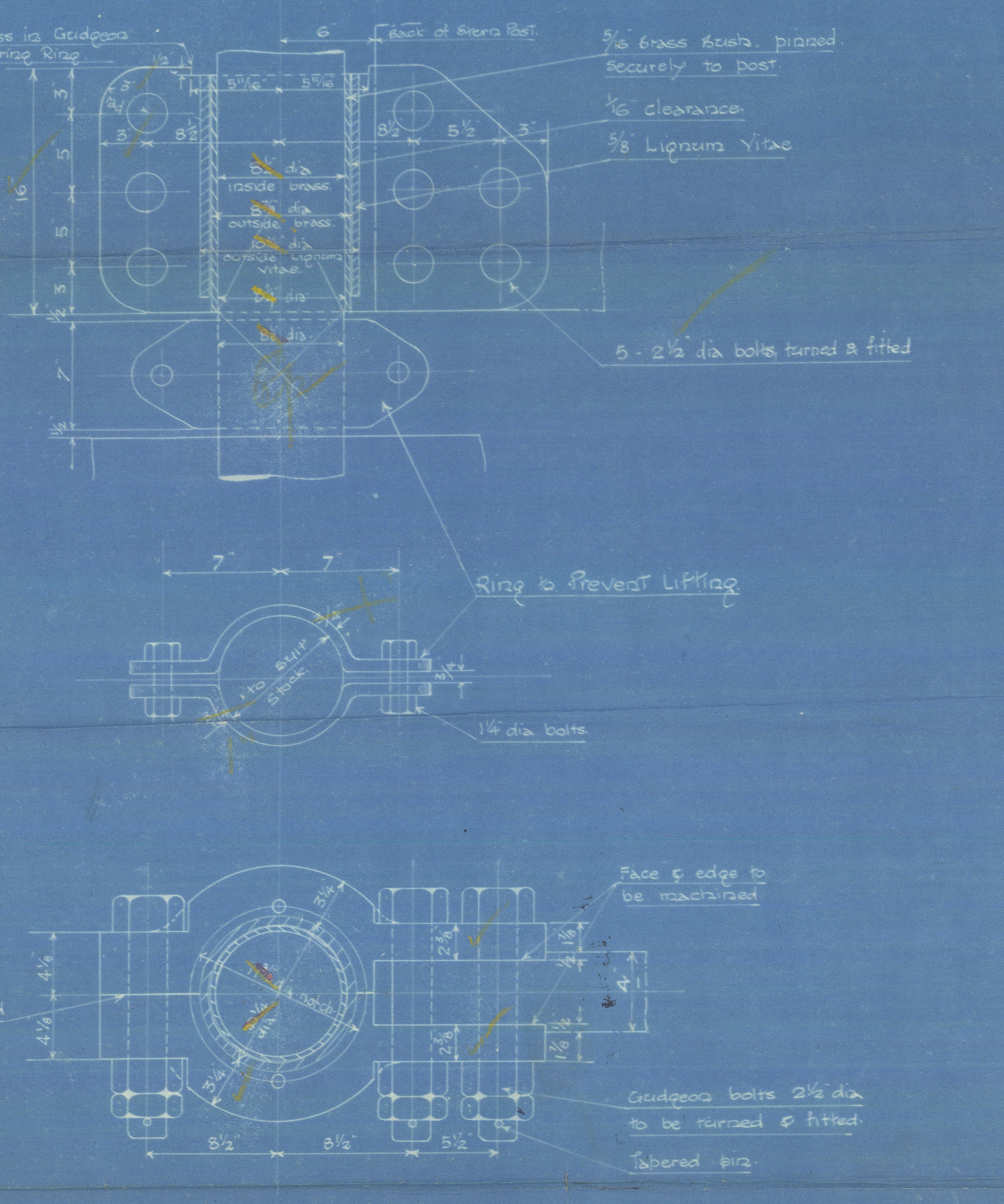
Thickness of Keys 10% dia of Stock
Width " " 20% "

Rudder Arms.


16" dia
2" × ½" Gunmetal bearing ring
7⅞" dia mainpiece
7½" dia inside brass
3¾"
8"
5"
2"
6"
1" dia Hole
1/16 clearance.
½" Brass bush 5" deep secured to foot by key to prevent turning.
Hard steel washer.

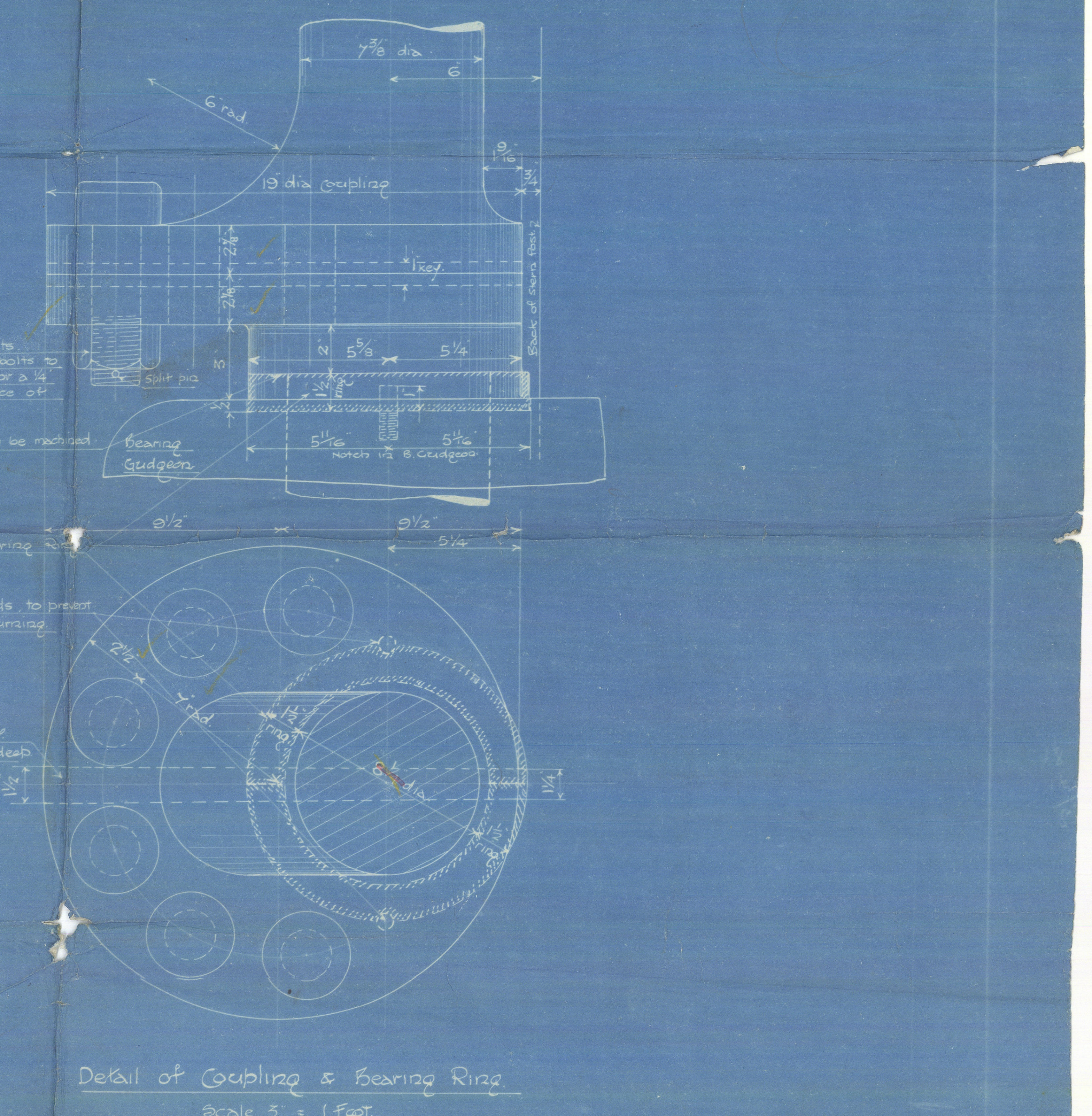
Detail of Bottom Gudgeon

Scale ⅛" = 1 inch.


½" Recess in Gudgeon for Bearing Ring.
6"
Back of Stern Post.
5/16 brass bush, pinned securely to post.
1/16 clearance.
⅝ Lignum Vitae.
5 - 2½" dia bolts, turned & fitted
5 11/16"
8½"
5½"
3"
16"
dia inside brass.
dia outside brass.
dia outside Lignum Vitae.
7"
7"
Ring to Prevent Lifting.
to suit Stock.
1¼ dia bolts.
Face & edge to be machined
Edge machined
4⅛
2⅜
1⅛
4"
¼ notch
8½"
8½"
5½"
Gudgeon bolts 2½" dia to be turned & fitted.
Tapered pin.

Detail of Bearing Gudgeon

Scale 1½" = 1 Foot.


7⅜ dia.
6"
6" rad.
19" dia Coupling
1 9/16
¾
2⅛
1" key.
Back of Stern Post
6 - 2⅛ dia bolts. Threads on bolts to be carried for a ¼" below surface of Coupling.
Split pin
2"
5⅝
5¼
½ ring
This edge to be machined
Bearing Gudgeon
5 11/16"
Notch in B. Gudgeon
9½"
9½"
5¼
½ Brass Bearing Ring in halves.
¾" dia studs, to prevent ring from turning.
2½"
7" rad.
Tapered key 1½" to 1¼" × 1" deep
1½
1¼
dia

Detail of Coupling & Bearing Ring

Scale 3" = 1 Foot.

29.12.23.

FURNESS SHIPBUILDING COMPANY, LTD. HAVERTON HILL-ON-TEES
Dept. S.D.O
Issue No. x5330
Date 21/12/23.

004062-004066-0183